

245300
24814
S/081/61/000/011/005/040
B105/B2C3

245300

AUTHORS: Yungman, V. S., Gurvich, L. V., Kvlividze, V. A.,
Rtishcheva, N. P.

TITLE: Thermodynamic functions of monoatomic and diatomic gases
in a wide temperature range. IV. N^+ , N_2^+ , and NO^+ in
ideal state up to 20,000° K

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 11, 1961, 40, abstract
115 292 (Sb. tr. Gos. in-ta prikl. khimii, 1960, vyp. 46,
15 - 28) X

TEXT: The thermodynamic functions (Φ_T^* , S_T^0 , and $H_T^0 - H_0^0$) of N^+ , N_2^+
and NO^+ in ideal state up to 20,000° K at a pressure of 1 atm were
calculated on an electronic computer. In the values Φ_T^* and S_T^0 at
 $T \leq 10,000^\circ K$, the error does not exceed 0.01 cal/mole/deg, and at
 $T = 20,000^\circ K$ it does not exceed 0.2 cal/mole/deg. The values of the
logarithms of the equilibrium constants for the ionization of N , N_2 , NO
and the dissociation of N_2^+ and NO^+ are given. [Abstracter's note:
Card 1/2]

Thermodynamic functions...

Complete translation.]

24814
S/081/61/000/011/005/040
B105/B203

Card 2/2

11.5100
11.3000

32326

S/081/61/000/024/008/086
B138/B102

AUTHORS: Gurvich, L. V., Yungman, V. S., Prozorovskiy, Ye. A.,
Vorob'yev, B. A.

TITLE: Calculation of the thermodynamic functions of diatomic gases
at elevated temperatures by direct summation on an electronic
machine

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 24, 1961, 62, abstract
24B422 (Tr. In-ta goryuchikh iskopayemykh AN SSSR, v. 12,
1961, 196 - 205)

TEXT: A very rapid and precise method is proposed for the calculation
of the thermodynamic function tables of diatomic perfect gases at tempera-
tures of up to 20,000 to 25,000°K. The statistical sums are calculated,
for the rotational vibrational and electron states of the molecule in
question, by direct summation through the really existant energy levels,
using a high-speed electronic computer. For this kind of calculation the
molecular constant which most precisely describes all the energy levels of X

Card 1/3

32326
S/081/61/000/024/008/066
B138/B102

Calculation of the thermodynamic ...

the molecule must be known, as also the highest values of the quantum numbers up to which summation is to be made. A method is described for calculating vibrational constants and maximum vibrational quantum numbers $v(\max)$ using the conditions for the convergence of the vibrational levels toward the dissociation limit. A method has been developed for calculating values of rotational quantum numbers $J(\max)$ for each vibrational state, using the properties of the effective potential curves of the rotating molecule. As an example some results are given of the calculation of the χ main state $x^3\Sigma_g^-$ of an O_2 molecule. In particular, to describe the energy of vibrational levels (in cm^{-1}) the equation $G_{O_2}(v) = 1568.077 v - 11.706 v^2 - 0.00255 v^3 + 0.00224 v^4 - 0.0000821 v^5$ is derived, which converges towards the 41261 cm^{-1} limit at $v(\max) = 42$ (experimental values of dissociation energy of O_2 are $41260 \pm 15 \text{ cm}^{-1}$). $J(\max)$ values are found for all v . The thermodynamic functions of molecular oxygen are given for the following temperatures: 5000°K (63.395 and 73.038), 10000°K (70.457 and 79.942),

Card 2/3

32326

S/081/61/000/024/008/086
B138/B102

Calculation of the thermodynamic ...

15000°K (74.229 and 83.255) and 20000°K (76.746 and 83.203) (values in brackets are for the isobaric-isothermal potential ϕ_T^* and entropy S_T^0 respectively, in cal/mol, degree. [Abstracter's note: Complete translation.] ✓

Card 3/3

YUNGMAN, V.S. (Moscow)

Taking into account the centrifugal stretching of symmetrical rotator type molecules in the calculation of thermodynamic functions. Zhur. fiz. khim. 35 no.2:319-321 F '61.

(MIRA 16:7)

1. Institut goryuchikh iskopayemykh AN SSSR.
(Gas dynamics)

GURVICH, L.V.; YUNGMAN, V.S. (Moskva)

Thermodynamic functions of mono- and diatomic gases in a wide range of temperatures. Part 2: Method for computing the thermodynamic functions of diatomic gases in the ideal state. Zhur.fiz.khim. 35 no.9:1927-1934 '61. (MIRA 14:10)

1. Institut goryuchikh iskopayemykh.
(Gas dynamics)

YUNGMAN, V.S.; GURVICH, L.V.; KVILIVIDZE, V.A.; PROZOROVSKIY, Ye.A.;
RTISHCHEVA, N.P. (Moscow)

Thermodynamic functions of mono- and diatomic gases in a wide
temperature range. Part 3: N, N₂ and NO in the ideal state up
to 20000 K. Zhur.fiz.khim. 35 no.10:2182-2189 0 '61.

(MIRA 14:11)

1. Akademiya nauk SSSR, Institut goryuchikh iskopayemykh.
(Nitrogen) (Nitrogen oxide) (Gas dynamics)

YUNGMAN, V. S.

PHASE I BOOK EXPLOITATION

JUN 506/6260
10

Gurvich, Lev Veniaminovich, Georgiy Akopovich Khachkurozov, Vadim Andreyevich Medvedev, Inessa Veniaminovna Veyts, Georgiy Andreyevich Bergman, Vladimir Stepanovich Yungman, Nina Petrovna Rtishcheva, Lidiya Fedorovna Kuratova, Georgiy Nikolayevich Yurkov, Amaliya Abramovna Kane, Boris Fedorovich Yudin, Boris Isidorovich Brounshteyn, Viktor Feodoseyevich Baybuz, Valeriy Aleksandrovich Kviliividze, Yevgeniy Aleksandrovich Prozorovskiy, and Boris Aleksandrovich Vorob'yev.

Termodinamicheskiye svoystva individual'nykh veshchestv; spravchik v dvukh tomakh. tom 1: Vychisleniye termodinamicheskikh svoystv; tom 2: Tablitsy termodinamicheskikh svoystv (Thermodynamic Properties of Individual Substances; Reference Book in Two Volumes. v. 1: Calculation of Thermodynamic Properties; v. 2: Tables of Thermodynamic Properties). 2d ed., rev. and enl. Moscow, Izd-vo AN SSSR, 1962. 1161 and 916 p. 4000 copies printed.

Sponsoring Agencies: Akademiya nauk SSSR. Institut goryuchikh iskopayemykh; iind Gosudarstvennyy komitet Soveta Ministrov SSSR

Card 1/5

Thermodynamic Properties (Cont.)

SOV/6260
10

po khimii. Institut prikladnoy khimii.
Resp. Ed.: V. P. Glushko, Academician, L. V. Gurvich, G. A. Khach-
kuruzov, I. V. Veyts, and V. A. Medvedev; Ed. of Publishing House:
K. P. Gurov; Tech. Ed.: V. G. Laut.

PURPOSE: This reference book may be used in scientific-research and experimental-design work in institutes, design offices, and schools of higher education, as well as for training specialists in chemical thermodynamics and thermal physics.

COVERAGE: Volume 1 of this work deals with methods for calculating thermodynamic properties and with the selection of constants required for the calculations. Volume 2 contains tables of thermodynamic properties (reduced thermodynamic potential, entropy, enthalpy, and the logarithm of the dissociation or ionization constants of equilibrium) compiled where data were lacking, on the basis of published and unpublished material from a number of Soviet research institutes. Thermodynamic properties for the ideal gas

Card 2/98

10

Thermodynamic Properties (Cont.)

SOV/6260

state are presented in table form for 335 gases, 44 liquids, and 45 solids compounded from 33 chemical elements and their isotopes, viz.: H, D, T, He, Li, Be, B, C, N, O, F, Ne, Na, Mg, Al, Si, P, S, Cl, Ar, K, Ga, Br, Kr, Re, Sr, Zr, I, Xe, Cs, Ba, Hg, and Pb. Thermodynamic properties are given for the following 22 gases in the range from room temperature to 20,000°K: H, H⁺, H⁻, O, O⁺, O₂, O₂⁺, OH, OH⁺, H₂O, N, N⁺, N₂, N₂⁺, NO, NO⁺, C, C⁺, CO, CO⁺, and e⁻; for the 14 least stable gases up to 4000°K; and for the remaining 299 gases up to 6000°K. Virial coefficients for 34 gases are also given up to 6000°K.

TABLE OF CONTENTS (Volume 1) [Abridged]:

Foreword	11
Introduction	19

PART I. METHODS OF CALCULATING THE THERMODYNAMIC PROPERTIES OF INDIVIDUAL SUBSTANCES

Card 3/2

YUNGMAN, V.S.; GURVICH, L.V.; RTISHCHEVA, N.P.

Thermodynamic properties of gaseous compounds of nitrogen with
hydrogen (NH_3 , NH_2 , and N_2H_4). Trudy CIPKH no.49:20-37 !62.
(MIRA 17:11)

GURVICH, L.V.; VOROB'YEV, B.A.; KVLIVIDZE, V.A.; PROZOROVSKIY, Ye.A.; TRISHCHEVA, N.P.; YUNGMAK, V.S.

Thermodynamic functions of mono- and diatomic gases within a wide range of temperatures. Part 6: O, O⁺, O₂, and O₂⁺ in the ideal state up to 20 000° K. Trudy GIPKH no.49:38-60 '62.

(MIRA 17:11)

GURVICH, L.V.; YUNGMAN, V.S.

Temperature dependence of the thermodynamic functions of an ideal
gas. Teplofiz. vys. temp. 2 no.1:118-119 Ja-F '64. (MIRA 17:3)

1. Nauchno-issledovatel'skiy institut vysokikh temperatur.

MEDVEDEV, V.A.; YUNGMAN, V.S.; VOKOB'YEV, A.F.; TURVICH, L.V.;
BERGIAN, G.A.; BEZBITSKII, L.A.; KLEVKOV, V.I.;
SAL'YENKO, G.I.; KUDREV, Yu.S.; KRASCHUKOV, V.B.;
SOROLOV, V.S.; ACHORNAY, L.N.; MOLAYERINA, A.Y.;
KOMAROVA, A.P.; NEVIS, I.V.; VYAKOV, G.R.; MALEVICH, V.V.;
SKIRNOVA, N.L.; GLUSHKO, V.P., akademik, otv. red.;
MIKHAYLOV, V.V., red.; KARAPET'YANTS, M.Kh., red.

[Thermal constants of substances] reference book in ten
numbers [Teplokonstanty sredstv vysokotekhnicheskogo
i reshetnykh upravlenii] / pod red. V. V. MIKHAJLOVA. - M.:

1. Moscow, Vsesoyuznyj institut nauchnoj i tekhnicheskoy
informatsii.

L6250-66 EWT(1)/EWT(m)/EWP(j)/T IJP(c) WW/JW/AT/WE/RM
ACC NR: AP6029776 SOURCE CODE: UR/0294/66/004/004/0507/0512

AUTHOR: Yungman, V. S., Gurvich, L. V., Rtishcheva, N. P. 83

ORG: High Temperature Scientific Research Institute (Nauchno-issledovatel'skiy institut vysokikh temperatur)

TITLE: Composition and thermodynamic properties of products of methane combustion with ionizing additives

SOURCE: Teplofizika vysokikh temperatur, v. 4, no. 4, 1966, 507-512

TOPIC TAGS: combustion, methane, plasma, combustion product, combustion catalyst, ~~thermodynamic property~~, ~~chemical composition~~

ABSTRACT: The thermodynamic properties and the equilibrium composition of a low-temperature plasma consisting of the products of methane combustion in air in the presence of an ionizing additive ($K_2 CO_3$) have been calculated on a computer for a wide range of temperatures (1000—4000K) and pressures (0.2—100 atm). The problem of determining the equilibrium composition (partial pressures of mixture components) of a homogeneous chemically reacting plasma of the composition C-H-O-N-K-Ar at constant total pressure in the ideal-gas approximation, amounted to the solution of a system of nonlinear equations. This system included chemical equilibrium-constant

Card 1/2

UDC: 662.613:547.211•546.32

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ACC NR: AP6029776

equations, material-balance equations describing the elemental chemical composition of the plasma, a Dalton's law equation for the constant total pressure, and an equation describing the electrical quasi-neutrality of the plasma. The cores considered were those of the combustion of methane in air of normal composition, in air enriched in oxygen (to 30-40% O₂), and in air enriched in nitrogen (to 81.08% N₂) (a case approximating the combustion of natural gas), with or without K₂CO₃ additive (1% on a K basis), at oxidant excess factors of 0.9, 1, and 1.1 (all concentrations are in vol %). The presence of the species, HO₂, NH, HNO, HCO, NO₂, N₂O, O⁻, H⁻, OH⁻, KO, KH, KOH, and K(OH)₂, was taken into account. The interesting fact is discussed of a marked change in equilibrium composition on addition of K₂CO₃. The role of the molecular compounds of K, viz., KO, KH, KOH, and K(OH)₂, is analyzed and it is shown that when these compounds are taken into account, the calculated equilibrium composition of the combustion products changes substantially, and the calculated electron concentration is lowered. Orig art. has: 3 figures.

[SM]

SUB CODE: 21/ SUBM DATE: 28Oct65/ ORIG REF: 002/ OTH REF: 004

Card 2/2 hs

YUNGMEYSTER, ENG. A. B.

Brickmaking

Automatic loading and unloading of kiln drying trucks in brick production. Eng.
A. B. Yungmeyster. Mekh. stroi. 9 No. 6 1952

Monthly List of Russian Accessions, Library of Congress, September 1952. UNCLASSIFIED.

L 33292-56 EWT(1) IJP(c) AT

ACC NR: AP6014044

SOURCE CODE: UR/0056/66/050/00^b/1036/104747
BAUTHORS: Mikhaylovskiy, A. B.; Yungvirt, K.

ORG: [Yungvirt] Institute of Plasma Physics, Prague (Institut fiziki plazmy)

TITLE: Quasilinear transformation of waves in an inhomogeneous plasma

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 50,
no. 4, 1966, 1036-1047TOPIC TAGS: nonlinear plasma, plasma beam interaction, plasma density,
plasma electron oscillation, INHOMOGENEOUS PLASMA

ABSTRACT: This paper is essentially the nonlinear extension of the linear theory of the interaction between a plasma and a spatially inhomogeneous electron beam presented by the authors in an earlier paper (ZhETF v. 36, 777, 1965). All the basic assumptions and the notation are the same as in the earlier paper. In particular, it is assumed that the ratio of the beam density to the density of the cold plasma is a small quantity and that the dimensions of the beam are smaller than the radius of the cylinder. The analysis is restricted to irrotational electron plasma oscillations. A new feature in the treatment is the introduction of convective (drift) effects. Energy transfer from high to low frequencies is investigated for a system consisting of a cold

Card: 1/2

L 33292-66

ACC. NR. AP6014044

system pierced by a thin electron beam, of transverse dimension a , moving along the axis of the plasma cylinder of radius R located in a longitudinal magnetic field. The basic equations of the quasilinear approximation for this inhomogeneous system are first derived and the time integrals calculated. The quasilinear pumping of energy from the high frequency into the low-frequency oscillations is then evaluated under the assumption that the original beam distribution function is a broad step previously produced as a result of smearing of the δ -function beam. The total initial energy of the high-frequency oscillations is estimated to be of the same order as the kinetic energy of the beam, and it is shown that for sufficiently high initial amplitude of the high-frequency oscillations, most of the energy is converted into low-frequency energy. This is followed by analysis of a later stage in the growth of the low-frequency oscillations and the relaxation of the beam distribution function. It involves damping of the low-frequency oscillations, which compensates for the excitation of these oscillations by the spatially inhomogeneous beam. The effect of the beam spreading on the growth of the low-frequency oscillations is estimated. It is concluded that the frequency conversion in the plasma can be lead to a substantial reduction of the energy of the plasma oscillations. Orig. art. has: 50 formulas.

SUB CODE: 20/ SUBM DATE: 01Nov65/ CRIG REF: 005/ OTH REF: 001

Card 1 of 2

DERING, A.B., glav. red.; TUROV, M.G., zam. glav. red.; BERZON,
E.M., red.; BUCHKIN, N.A., red.; KOZLOV, V.K., red.;
NAYMARK, I.I., red.; NIKOLAEV, K.N., red.; SUSHCHEV,
N.N., red.; TERESHCHENKO, Ye.I., red.; YUNMEYSTER, A.B.,
red.; PUL'KINA, Ye.A., otv. za vyp.

[Reports on the technical level of the manufacture of
reinforced concrete products] Sbornik dokladov ob urovne
tehniki proizvodstva zhelezobetonnykh izdelii; informa-
tsionnyi material. Leningrad, Otdel tekhn. informatsii.
No.3. 1959. 81 p. (MIRA 16:11)

1. Leningrad. Vsesoyuznyy nauchno-issledovatel'skiy in-
stitut po mashinam dlya promyshlennosti stroitel'nykh
materialov.

(Reinforced concrete products)

YUNGMEISTER, A.B., inzh.

Special kilns are required for automation of the ceramic industry.
Stroi. i dor. mash. 7 no. 5:21-23 My '62. (MIRA 15:5)
(Ceramic plants)
(Kilns)

SHULIKO, L. F., kand. tekhn nauk; YUNGMEYSTER, A. B. kand tekhn nauk;
GAVRILOV, N. S., inzh.

Rapid firing of tiles produced by the casting method. Trudy
NIIStroikeramiki no. 19:16-22 '62. (MIRA 17:5)

YUNGMEYSTER, V. (Leningrad)

Speaking about link trainers. Grazhd.av. 20 no.5:13-15 My '63.
(MIRA 16:7)

(Link trainers)

L10081-63

EE/EE(+) EE(s)/EE(e)/EE(k) --

AMD/ASD-Pb-4-A

ACCESSION NR: AP3000730

S-104

AUTHOR: Yungmeyster, V. (Leningrad)

TITLE: About ground-based flight-simulating machines.

SOURCE: Grazhdanskaya aviatziya, no. 5, 1953, p. 11

TOPIC TAGS: ground trainer, flight simulator, pilot training, flight instructors, final-approach simulation devices

ABSTRACT: The present article supplements the one published in the Dec. 1952 issue of the same magazine on the subject of flight-trainer simulators. The Department of Aviation and Medical Officers of the Leningrad S. M. Kirov Military Medical Order-of-Lenin Academy assigned S. M. Kurochkin to conduct an experiment. Two students, both of whom had been trained in whatever, went through a PL-1 ground-trainer program in a two-seater jet aircraft. An instructor was seated in the rear seat. In-flight maneuvers were left entirely to the two. Both trainers performed creditably; one was 41% faster than the other.

Card A/3

L 10081-63

ACCESSION NR: AP3000730

other "good." It is concluded that any critique of flight training which does not include a ground-trainer-simulator is not equivalent to actual flight training. Calculations show that the advantages of ground-trainer-simulators over flight simulators are the independence of the flight simulator from a specific aircraft, weather conditions, time of day, and prevailing brightness. The cost of operation of a flight simulator is 1/40 or less than that of a ground-trainer-simulator (assuming both at a utilization level of 200 hours per year). This has obtained justification the assumption that one hour of simulation is equivalent to one hour of flight training. This is particularly true of full-cockpit-simulating flight simulators by permitting the student to practice their training. The safety of the ground trainer-simulator permits configurations of propulsive power, etc., eliminating the possibility of simulation of such conditions in flight. Weather simulation permits the instructor to concentrate on the relationship between the safety of flight. On some trainers, it is possible to restore a flight condition after a mistake committed by the student and to repeat the maneuver after the previous mistake. The end result is a large saving in time. Use of a ground simulator-trainer in checking and developing the performance of flight instructors is developed. The use of a ground simulator in training flight instructors is also developed.

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ACCESSION NR: AP3000730

effectiveness in navigational training.

ASSOCIATION none

SUBMITTED A DATE AS: 10/20/50

SUB CODE: CG NF REF SOW: 204

ACC NR: AP7001343

SOURCE CODE: UR/0386/66/004/011/0404/0405

AUTHOR: Yungvirt, K., Vatslavik, Ya.

ORG: Institute of Plasma Physics, Czechoslovak Academy of Sciences

TITLE: Quasilinear transformation of waves in an inhomogeneous plasma and nonlinear effects

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki. Pis'ma v redaktsiyu.
Prilozheniye, v. 4, no. 11, 1966, 464-468

TOPIC TAGS: plasma wave interaction, nonlinear plasma, nonlinear effect, plasma decay

ABSTRACT: This is a continuation of earlier work by one of the authors (Jungwirth, with A. B. Mikhaylovskiy, ZhETF v. 50, 1036, 1966), where the feasibility of quasi-linear wave transformation in a plasma was demonstrated. Inasmuch as the earlier paper left open the question whether this effect can play an important role in the presence of nonlinear wave interaction, the authors analyze the kinetic equation for such a case and determine the conditions under which a quasilinear transformation can or cannot occur in the presence of nonlinear interaction. A table is presented listing the quantities characterizing the nonlinear interaction, the time variation of the energy density, and other processes accompanying the wave interaction and transformation. A detailed corroboration of the present data is to be published in Czech. J. Phys. Orig. art. has: 6 formulas and 1 table.

SUB CODE: 20/ SUBM DATE: 22Aug66/ ORIG REF: 002/ OTH REF: 001

Card 1/1

1 33417-66 EWT(1)/ETC(f) IJP(c) AT
ACC NR: AP6015298 (A, N)

SOURCE CODE: UR/0057/66/036/005/0777/0790

AUTHOR: Mikhaylovskiy, A. B.; Yungvirt, K.

59

B

ORG: Institute of Plasma Physics, Prague, ChSSR (Instituta fiziki plazmy)

TITLE: On the role of convective effects in the excitation of electronic oscillations
in a plasma by a bounded beam

SOURCE: Zhurnal tekhnicheskoy fiziki, v. 36, no. 5, 1966, 777-790

TOPIC TAGS: plasma oscillation, electron beam, plasma instability, plasma wave

ABSTRACT: The authors discuss the excitation of electronic oscillations in a homogeneous plasma cylinder in a uniform axial magnetic field by an inhomogeneous electron beam moving on the axis. Particular attention is given to excitation of oscillations that do not have axial symmetry; in this case there is effective a mechanism that does not come into play in the axially symmetric case and that involves radial drift of the beam electrons in the azimuthal electric field of the oscillations and the external magnetic field. The calculations are based on the kinetic equation of Vlasov, and only those oscillations are discussed whose frequencies are high compared with the ionic Larmor and Langmuir frequencies. Conditions for stability of the plasma are found and expressions are derived for the logarithmic increments of different instabilities with different assumptions concerning the velocity distribution

UDC: 533.951

Card 1/2

L 33417-66

ACC NR: AP6015298

of the beam electrons. When the transverse velocities of the beam electrons are finite, the convective mechanism contributes to the instability not only in the case of Cerenkov interaction between the particles and waves, but also in the case of the anomalous and normal Doppler effects. In addition to beams with square, Maxwellian, and delta-function velocity distributions, a beam is discussed in which the electrons rotate about the axis of the plasma cylinder. In the case of a very narrow beam of this type the usual convective effects play no role, but there appear instabilities that are due to another mechanism which has not yet been adequately studied. Orig. art. has: 57 formulas.

SUB CODE: 20/ SUBM DATE: 26Jul65/ ORIG REF: 008/ OTH REF: 000

Card 2/2 ULR

YUNIK, I

N/5
748.17
.Y9

YUNIK, I
Kreditovaniye i finansirovaniye zhilishchnogo i komunal'nogo
khozyaystva (Crediting and financing dwellings and communal
buildings) Moskva, Gosfinizdat, 1955
239 p. tables.
Bibliographical footnotes.

YUNIK, I.

Bank control over capital repairs in housing. Den. i kred.
(MIRA 13:7)
18 no.7:40-47 J1 '60.
(Banks and banking)
(Building—Repair and reconstruction)

YOMI, I.

Reveal hidden potentialities in repair and construction organizations. Den. i kred. 20 no.3:26-33 Mr '62. (MIRA 15:3)
(Construction industry—Finance) (Banks and banking)

YUNIK, Isaak Borisovich; MISEYUK, Korneliy Antonovich; MELKOV, A.,
otv. red.

[Financing and issuing credit for capital investments in
agriculture] Finansirovanie i kreditovanie kapital'nykh
vlozhenii v sel'skoe khoziaistvo. Moskva, Finansy, 1965.
206 p. (MIRA 18:5)

1. Pravleniye Gosudarstvennogo banka SSSR (for Yunik, Miseyuk).

PODRESHETNIKOV, V.; YUNIK, L.

Using a vibro-signaling apparatus as an anti-pump device.
Gaz. dalo no. 3:44-45 '63. (MIRA 17:8)

1. Spetsial'noye konstruktorakoye byuro "Gazpriboravtomatika".

L 27250-66 EWA(h), ENT(d), EWT, BAF, ST, +, -, 400
A22 NR. AP63A9542 GAT, +, -, 400

АТЫШЕВДжалиев, Я., М., Чуреков, А., Абай,

卷之三

1118. Mass flow meter range: 0-1000 kg/h. Resolution: 0.1%. Accuracy: $\pm 0.5\%$. Manufacturer: Bureau Gas Instrument Automation of State Planning and Construction Industry SSSR. Supplier: Mykolaivskiy instrumento-tekhnicheskiy zavod. Address: 320000, Mykolaiv, Sovetskaya str., 10. Postbox: 100. Telephone: 2-20-10-10. Postcode: 320000. Postcode: 320000.

SCMCS: Interpretacija, prenovo, magjev izrazitost, vrednost.

TOPIC TAGS: flow meter, gas flow, flow measurement

ABSTRACT: This Annex describes the development of a new
mechanism which replaces the current mechanical
tension device used in the current version of the
Tension Device. The new mechanism is a
uni-directionally fastened design which uses a single
captive nut to hold two plastic elements, namely, a
tension device.

827

1 21250-66

A - 101 AP600-42

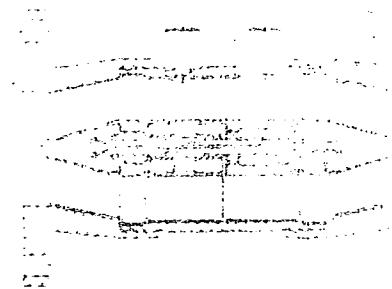


FIG. 1 - 21250-66
A - 101 AP600-42
axle: part 1 - elastic element.

In fig. 1 has 1 diagram.

SUB JNLN. 14 / SUBM DATE: 7/2/64

USSR / Soil Science. Physical and Chemical Properties of Soils. 3

Abs Jour: Ref Zhur-Biol., No 21, 1958, 95702.

Author : Yunik, Sh. M. *Семеновский*

Inst : Kiev Agricultural Institute.

Title : Determination of Akalinity in Dye Extracts.

Orig Pub: Pochvovedeniye, 1957, No 9, 122-124.

Abstract: Alkalinity of the water extract from solonets soils in Baryshevskiy Rayon, Kiyevskaya Oblast was determined by the usual titration and electrometric ionometer. For work with tinted water extracts, the KFV-II ionometer is recommended. The work was carried out at the Kiev Agricultural Institute.

Card 1/1

TSAP, M.L.; YUNIK, Sh.M.

Using ultraviolet spectrophotometry for determining phosphorus in soil extracts. Pochvovedenie no.10:92-100 O '59.
(MIRA 13:2)

1. Ukrainskiy nauchno-issledovatel'skiy institut zemledeliya.
(Soils--Analysis) (Spectrophotometry)

SAMEUR, G.N.; Prinimali uchastiye: KATERINICH, T.D.; YUNIK, S.M.

Mobility of exchangeable sodium and recommended norms for the
use of gypsum in the improvement of Solonetz soils. Pochvovedenie
no.11:35-46 N '63. (MIRA 16:12)

1. Ukrainskiy nauchno-issledovatel'skiy institut zemledeliya.

YUNIKHIN, L. L., Cand Tech Sci -- (diss) "Automatization of water supply in animal husbandry farms of the Altayskiy Kray." Omsk, 1965. 15 pp with illustrations; (Author's reference list of dissertation defended at the Omsk Agricultural Inst im S. M. Kirov); 200 copies; free; bibliography on page 15; (KL, 27-60, 152)

BAGIN, P.I.; YUNILIN, L.L.; inzh.-aspirant

Automatic features of the water supply on farms in the Altai.
Zhivotnovodstvo 20 no.11:81-82 N '58. (MIRA 11:11)
(Water supply, Rural)

YUNIKOV, A.F. (Yegorlykskiy rayon Stavropol'skogo kraya).

Elements of practical application in the teaching of mathematics.
Mat.v shkole no.2:45-47 Mr-Ap '54. (MLRA 7:3)
(Mathematics--Study and teaching)

TUNIKOV, A.F. (st.Peregovaya Stavropol'skogo kraya)

Experience in leading an excursion to a machine-tractor station.
Fiz. v shkole 16 no.3:64-67 My-Je '56. (MIRA 9:7)
(Machine-tractor stations) (Physics--Study and teaching)

YUNIKOV, B. A.

USSR/Metallurgy - Iron, Diffusion

Mar 53

"Frontal Diffusion in Commercial Iron," V. I. Arkharov, E. A. Yefremova, S. I. Ivanovskaya, A. K. Shtol'ts, B. A. Yunikov; Inst of the Phys of Metals, Ural Affil, Acad Sci USSR

DAN SSSR, Vol 89, No 2, pp 269-270

Studies diffusion of number of elements, such as Ni, Pd, Cu, Cr, into Fe and effect of admixts on diffusion rate. In case of Cr and Al, diffusion zone is uniform in width and has even front line. But in diffusion of Ni, Pd, and Cu, front of diffusion zone has protuberances, showing tendency of element to prefer diffusion along intercryst boundaries. This tendency is shown to lesser extent when Fe has small contents of Ti, Nb, Mo, and B. Diffusion of Ag in alloy of Fe with Pd is also discussed. Several photomicrographs are given. Presented by Acad I. P. Bardin 12 Jan 53

264T50

YUNIKOV, B. A.

"Investigating the Intercrystalline Internal Adsorption of Palladium in Iron and the Diffusion of Silver in an Iron-Palladium Alloy." Cand Phys-Math Sci, Ural State U, Sverdlovsk, 1954. (EZhKhim, No 5, Mar 55)

So: Sum. No 670, 29 Sept 55 - Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (15)

YUNIKOV, B. A. and ARKHAROV, V. I.

"The possibility of diffusing silver in iron with the presence of small admixture of palladium", appearing in the "Works of the Institute on the Physics of Metals, Issue 16, Collection of Research Papers on Diffusion and Internal Adsorption in Metals and Alloys", (Trudy Instituta Fiziki Metallov, vypusk 16, Sbornik Rabot Po Issledovaniyu Diffuzii I Vrutrennei Adsorbtsii V Metallakh I Splavakh), published by Ural Branch of the Academy of Science USSR, p 62, 1955.

ARKHAROV, V.I.; INFREMOVA, K.A.; IVANOVSKAYA, S.I.; SETOLOTS, A.K.;
YURIKOV, B.A.

Shape of the diffusion front in the diffusion of nickel and other
elements in iron and on the effect of small quantities of dissolved
admixtures on this pattern. Trudy Inst. fiz.met. no.16:56-61 '55.
(Crystallography) (Metallography) (MLRA 9:2)

OVCHINNIKOV, L.N.; YUNIKOV, B.A.; METTIKH, L.I.

Composition and structure of hydromica in the Buldym deposit.
Trudy Gor.-geol.inst. UFAN SSSR no.56:3-18 '61. (MIRA 15:7)
(Buldym Lake region—Hydromica)

YUNIKOV, B.A.; LATYSH, I.K.

Solubility of rutile in pseudobrookite. Trudy Gor.-geol.inst.
UFAN SSSR no.56:137-143 '61. (MIRA 15:7)

(Rutile)

(Pseudobrookite)

YUNIKOV, B.A.

X-ray investigation of vaporous cadmium and galenite interaction
products. Trudy Gor.-geol.inst. UFAN SSSR no.56:145-147 '61.
(MIRA 15:7)

(Cadmium)

(Galena)

POMINYKH, V.G.; YUNIKOV, B.A.

Spinel in the titanomagnetite deposits of the Urals. Zap.Vses.-
min. ob-va 90 no.6:717-720 '61. (MIRA 15:2)
(Ural Mountains--Spinel) (Ural Mountains--Titanomagnetite)

YUNIKOV, B.A.; OYCHINNIKOV, L.N.; METTIKH, L.I.

Determination of the composition of garnet of the grossular-andradide series based on the parameter of a unit cell. Trudy Gor.-geol.inst. UFAN SSSR no.56:45-48 '61. (MIRA 15:7)
(Garnet--Analysis)

YUNIKOV, B.A.; LATYSH, I.K.

Oxidation products of ulvöspinel. Geol.rud.mestorozh. no.4:130-
133 Jl-Ag '62. (MIRA 15:8)

1. Gorno-geologicheskiy institut Ural'skogo filiala Akademii
nauk SSSR, Sverdlovsk.
(Ulvöspinel) (Oxidation)

POMINKE, V.G.; YUMIKOV, B.A.

Titanomagnetites of basalts of the Chelyabinsk depression in
the Southern Urals. Trudy Inst. geol. UFAN SSSR no. 70:59-62
'63. (MIRA 36:12)

FOMINYKH, V.G.; YEREMINA, M.V.; YUNIKOV, B.A.

Ulvöspinel in the titanomagnetite deposits of the Urals.
Trudy Inst. geol. UFAN SSSR no.70:65-69 '65. (MIRA 18:12)

OVRICHENKOV, L.N., YUDINOV, D.A.

Key characteristics of Alvalon, Party Inst. pol. UPM SSSR
no. 70-121-123 '65.

(GRU 10:12)

YUNIKOV, B.A.; SVYAZHIN, N.V.

X-ray examination of cerite. Trudy Inst. geol. UFAN SSSR no.70:
245-247 '65. - (MIRA 18:12)

YUNIKOV, B.A.

X-ray study of the fine crystalline texture of artificial
pyrites. Trudy Inst. geol. UFAN SSSR no.70:305-30, '65.
(MIRA 18:12)

FOMINYKH, V.G.; YUNIKOV, B.A.; SOKOLOV, Yu.A.

Maghemite in titanomagnetite ores in the Lesser Kuybas deposit
of the Southern Urals. Izv.vys.ucheb.zav.; geol. i razv. 6
no.11:69-72 N '63. (MIRA 18:2)

1. Institut geologii Ural'skogo filiala AN SSSR i Sverdlovskiy
gornyy institut im. V.V.Vakhrusheva.

SIMONOV, A.I.; YUNIKOV, B.A.

Mineralogy of vesuvianite and garnet cherts of the Kyshtym region
(Central Urals). Trudy Gor.-geol. inst. UFAN SSSR no. 32:197-207
'59. (MIRA 14:5)

(Kyshtym region—Chert)
(X rays—Industrial application)

YUNIKOV, Yu.M.

Operation of a DIV 6.5 - 13 boiler with a high-speed combustion chamber. Der.prom. 5 no.2:23-24 F '56. (MLRA 9:5)

1. Ust'-Izhorskij fanernyy zavod.
(Ust'-Izhora--Veneers and veneering) (Boilers)

YUNIN, A. N.
USSR / Human and Animal Physiology. Skin.

T

Abs Jour : Ref Zhur - Biol., № 15, 1958, No. 70612

Author : Yunin, A. N.
Inst : Scientific Research Institute of Veterinary Sanitation
and Ectoparasitology

Title : The Rate and Duration of Penetration of S³⁵ through
Animal Skin

Orig Pub : Byul nauchno-tekh. inform. Vses. n.-i. inst. vet.
sanitarii o ektoparazitol., 1957, No 2, 11-12

Abstract : Colloidal sulfur (CS) in an oily base with an activity
of S³⁵ of 30-40 microcuries was applied to the skin over
the sacrum and the back of rabbits and sheep. The pene-
tration of S³⁵ was determined by the activity of the blood,
urine and feces; in sheep, by the activity of the wool and
of the lanolin taken from non-processed /i.e., areas to
which the radioactive sulfur preparation had not been

Card 1/2

YUNIN, A. N., Cand Biol Sci -- (diss) "An Investigation of the Penetrability of Animal Skin by Means of Radioactive Indicators." Stavropol', 1960, 20 pp, Ministry of Agric RSFSR; Stavropol' Agric Inst) 130 copies, no price given — List of authors works at end of text (10 entries) (KL, 21-60, 122)

YUNIN, K., inzh.

Loading and unloading of pig iron in the Gorkiy harbor. Rech. transp.
20 no. 5:36-37 My '61. (MIRA 14:5)

1. Gor'kovskiy rechnoy port.
(Gorkiy--Harbors) (Cargo handling)

BYURKIN, I.G., inzh.; YUNIN, K.A., inzh.

Mechanization of reloading operations in the Gorkiy Harbor.
Mekh.i avtom. proizv. 15 no.6:30-33 Je '61. (MIRA 14:6)
(Gorkiy-Harbor)
(Loading and unloading—Technological innovations)

YUNINA, A. I.

37677 sluchay mestnogo amiloidoza gurtani. vestnik otorinolaringologii
1949, No. 6, s. 72-73

So. Letopis' Zhurnal'nykh Statey, Vol. 47, 1949

YUNINA, A. E.I.

Cand. Med. Sci.

Dissertation: "Surgical Treatment of Stenosis in Cases of Paralysis of the
Deflecting Muscles of Larynx."

26/6/50
Moscow Medical Inst. Ministry of Health, RSFSR

SO Vecheryaya Moskva
Sum 71

YUNINA, A. I.

Larynx - Cancer

Case of laryngeal cancer which is difficult to diagnose. Vest. otorin. 14, No. 5, 1952.

Monthly List of Russian Accessions, Library of Congress, December 1952. Unclassified.

ZEMTSOV, G.M.; YUNINA, A.I.

Peculiarities of external respiration in tracheotomy patients.
Trudy gos.nauch.-issl.inst.ulka, gorla i nosa. 6:341-357 '55.
(MIRA 12:10)

1. Iz Gosudarstvennogo nauchno-issledovatel'skogo instituta
ulka, gorla i nosa i Klinicheskoy ordena Lenina bol'nitsy imeni
S.P.Botkina.

(RESPIRATION) (TRACHEA--SURGERY)

YUNINA, A.I.

~~Surgical treatment of stenosis in paralysis of the muscle abductor of the larynx. Trudy gos.nauch.-issl.inst.ukha, gorla i nosa. 6:406-413 '55.~~ (MIRA 12:10)

1. Iz klinicheskogo otdeleniya (zav. - prof.A.A.Atkarskaya) Gosudarstvennogo nauchno-issledovatel'skogo instituta ukha, gorla i nosa.

(LARYNX--SURGERY)

YUNINA, A.I., kandidat meditsinskikh nauk

Complications and therapy in laryngeal injuries. Vest.oto-rin.
17 no.4:35-41 Jl-Ag '55. (MLRA 8:10)

1. Iz klinicheskogo otdeleniya (zav.-prof. A.A.Atkarskaya)
Gosudarstvennogo nauchno-issledovatel'skogo instituta ukaz,
goria i nosa Ministerstva zdravookhraneniya RSFSR (dir.-zaelushenny
deyatel' narki prof. V.X.Trutnev)

(LARYNX, wounds and injuries,

compl. & ther.)

(WOUNDS AND INJURIES,

larynx, compl. & ther.)

USSR/Human and Animal Physiology. Respiration.

T-6

Abs Jour: Ref Zhur-Biol., No 12, 1958, 55669.

Author : Yunina, A. I.

Inst : ~~State Scientific~~ Research Institute for the Diseases
of the Ear, Throat, and Nose.

Title : The Effect of Tracheal Stenosis on Heart Function.

Orig Pub: Tr. Gos. n.i. in-ta, ukha, gorin i ncsa, 1956,
Vyp. 7, 123-135.

Abstract: In dogs and rabbits, a chronic tracheal stenosis (S), varied in its degree and its duration, caused disturbances in the heart's conduction system and in the myocardium. The rhythm was slowed, and changes of the electrocardiogram remained even after S was eliminated. A connection between the cardiac activity impairment, the severity of S, and the O₂

Card : 1/2

88

USSR/Human and Animal Physiology. Respiration.

T-6

Abs Jour: Ref Zhur-Biol., No 12, 1958, 55669.

(oxygenometric measurements) blood saturation was not observed. Clinical observation of human patients revealed similar displacements.

Card : 2/2

YUNINA, A.I., kand.med.nauk

Plastic restoration of the lumen of the larynx and trachea in
cicatricial stenosis. Zhur.ush., nos.i gorl.bol. 22 no.2:22-28
Mr-Ap '62.
(MIRA 15:11)

1. Iz nauchno-issledovatel'skogo instituta ukha, goryla i nosa
Ministerstva zdravookhraneniya RSFSR.
(LARYNX—SURGERY) (TRACHEA—SURGERY)

YUNINA, A.I., kand. med. nauk

Clinical aspects of lesions of the larynx in a patient exposed to the action of ionizing radiation and the first treatment of the sequelae of this injury. Zhur. ush. nos. i gorl. bol. 23:36-41 N-D '63. (MIRA 17:5)

1. Iz Gosudarstvennogo nauchno-issledovatel'skogo instituta ukhagorla, i nosa Ministerstva zdravookhraneniya RSFSR (direktor-prof. N.A. Bobrovskiy).

~~YUHINA, N.Y., mayor meditsinskoy sluzhby~~

Nicotinic acid for treating Botkin's disease. Voen.-med. zhur.
no.6:41-43 Je '51.
(HEPATITIS. INFECTIONS)
(NICOTINIC ACID)

(MLRA 9:9)

YUNINA, N.Y. mayor med.sluzhby

Repeated hospitalization of patients with stomach diseases.
Voen.-med.zhur. no.8:64-65 Ag '56 (MIRA 12:1)
(STOMACH--DISEASES)

YUNISOV, K.

Right gift. Obshchestv.pit. no.11:15 N 160. (MTR 14;3)

1. Zaveduyushchiy stolovoy zavoda "Vol'ta," Tallinn, ESSR.
(Tallinn—Restaurants, lunchrooms, etc.)

1. YURISOVA, A.
2. USSR (600)
4. Moving-Picture Projection
7. Circuit film distribution in the province of Leningrad, Kinome-khanik, no.10, 1952.
9. Monthly List of Russian Accessions, Library of Congress, February 1953. Unclassified.

YUNISOVA, G.V.

SOROKIN, Yu.N., kandidat tekhnicheskikh nauk; VOROB'YEV, B.N.; KONDRAT'YEV, V.A.; YER'YEV, B.N., akademik, redaktor; SAMARIN, A.M., redaktor; KUZNETSOV, I.V., kandidat filosofskikh nauk, redaktor; YUNISOVA, G.V., redaktor; ZHLENKOVA, Ye.V., tekhnicheskiy redaktor

[Aleksandr Fedorovich Mozhaiskii, creator of the first airplane; a collection of documents] Aleksandr Fedorovich Mozhaiskii sozdatel' pervogo samoleta; sbornik dokumentov. Moskva, 1955. 174 p.

(MIRA 8:7)

1. Chlen-korrespondent AN SSSR (for Samarin).
2. Akademiya nauk SSSR. Institut istorii yestestvoznaniya i tekhniki.
(Mozhaiskii, Aleksandr Fedorovich, 1825-1890)

OBRUCHEV, V.A., akademik; YUNISOVA, G.V., redaktor; POLYAKOVA, T.V., tekhnicheskiy redaktor

[From Kyakhta to Kuldja] Ot Kiakhy do Kul'dzhi; puteshestvie v Tsentral'nuiu Azii i Kitai. Izd. 3-e. [Moskva] Izd-vo Akademii nauk SSSR, 1956. 270 p. (MIRA 9:3)
(Mongolia--Description and travel) (China--Description and travel)

EFROS, M. M.; GUSAROV, Ye. I.; YUNISOVA, S. A.; Prinimal uchastiye:
KORNIYENKO, V. A.

Investigating the operation of plant furnaces converted to gas
using a low-pressure jet. Trudy VNIIT no. 11:218-244 '62.
(MIRA 17:5)

EFROS, M.M.; BRUK, Yu.G.; YUNISOVA, S.A.; SOKOLOV, S.I.

Investigating an industrial-test furnace for nonoxidative heating
in the Leningrad Metallurgical Plant named for the 22nd Congress
of the U.S.S.R. Trudy VNIIT no.13:139-120 '61.

YUNITSIN, B.A., kand.tekhn.nauk

Determining rope sagging during towing operations. Sud.sil.ust.
no.1:109-111 '61. (MIRA 15*7)

1. Sluzhba sudovogo khozyaystva Baltiyskogo gosudarstvennogo
morskogo parohodstva.
(Towing)

YUBITSKAYA, G.S.

~~Two cases of gastric phlegmon. Vest.khir. 77 no.5:98-99 My '56.~~
~~(MLRA 9:8)~~

1. Iz Perovskoy ob'yedinennoy dorozhnoy bol'nitsy Moskovsko-
Ryazanskoy sheleznnoy drogi.
(STOMACH--INFLAMMATION)

IVANOV, S.S.; YUNITSKAYA, N.V.

Colorimetric glasses. Sakharnaya Prom. 23, No.10, 33-5 '49. (MIRA 2:9)
(CA 47 no.14:7176 '53)

YUNITSKAYA, T.F., meditsinskaya sestra

Pregnancy and tuberculosis. Med. sestra 20 no.9:14-17 S '61.

(MIA 14:10)

1. Iz Moskovskogo nauchno-issledovatel'skogo instituta tuberkuleza
Ministerstva zdravookhraneniya RSFSR.
(TUBERCULOSIS) (PREGNANCY, COMPLICATIONS OF)

SEMENTCHEVA, T.N., meditsinskaya sestra; YUNITSKAYA, T.F., meditsinskaya
sestra

Diabetes mellitus and tuberculosis. Med. sestra 20 no. 9:17-22 S
'61. (MIRA 14:10)

1. Iz Moskovskogo nauchno-issledovatel'skogo instituta tuberkuleza
Ministerstva zdravookhraneniya RSFSR.
(TUBERCULOSIS) (DIABETES)

YUNITSKAYA, V., inzh.; RYAKOVA, N., inzh.

Using hammer crushers to obtain fine-grained crushed material. Stroi.
mat. 3 no.12:31 D '57. (MIRA 11:2)
(Crushing machinery) (Aggregates (Building materials))

YUNITSKAYA, V. I., Cand Med Sci (diss) -- "Delayed results of firearm wounds to the long hollow bones of the lower extremities". Saratov, 1957. 7 pp
(Stalingrad State Med Inst), 200 copies (KL, No 11, 1960, 139)

~~YUNITSKAYA, V.I., major med. slushby~~

Mikulich's disease in military medical practice. Voen.med.zhur.
no.3:90-91 Mr '57. (MIRA 11:3)
(SALIVARY GLANDS--DISEASES)

YUNITSKAYA, V.I. (Saratov)

Clinical picture and surgical treatment of tuberculous epididymitis in
young subjects. Urologia 23 no.4:39-42 Jl-Ag '58 (MIRA 11:8)
(TUBERCULOSIS, MALE GENITAL
epidimic, clin. manifest. & surg. (Rus))

KLYUYEV, G.M., kand.tekhn.nauki; YUNITSKAYA, Ye.I., starshiy inzh.;
RYAKOVA, E.Ya.; Prinimali uchastiyi: PETROV, A.M.; SHISHKIN, A.P.;
KNAUS, O.M.; RUSAKOVA, R.A.; STEPANOVA, L.G.; KALINKIN, V.F.;
GOPKALOVA, N.K.; SACHKOV, V.P.; FROLOV, M.F.; LUKASHOVA, T.T.;
SAVKIN, P.S.

Grain-size distribution in the material produced by crushing rock.
Sbor. trud. NIIZHelezobetona no.3:69-90 '60. (MIRA 15:2)

1. Gosudarstvennyy nauchno-issledovatel'skiy institut zhelezobeton-
nykh izdelii, stroitel'nykh i nerudnykh materialov (for Petrov,
Shishkin, Knaus, Rusakova, Stepanova, Kalinkin, Gopkalova, Sachkov,
Frolov, Lukashova, Savkin).

(Stone, Crushed)

RODIN, R.A., kand.tekhn.nauk; YUNITSKAYA, Ye.I., inzh.

Testing crushed stone in the process of inspecting the quality
of the output of crushing and grading plants. Sbor. trud.
NIIZhlezobetona no.7:71-86 '62. (MIRA 16:1)
(Stone, Crushed--Testing)

"APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001963120016-2

RODIN, R.A., kand. tekhn. nauk; YUNITSKAYA, Ye.I., inzh.

Automating quality control of crushed stone. Sbor. trud.
NIIZHelezobetona no.8:30-35 '63 (MIRA 18:1)

APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001963120016-2"

XUNITSKIY, B.P.

MATISSEN, Petr Petrovich; KISEL'VA, Nataliya Sergeyevna; PAKSHVER, A.B.,
retsenzent; XUNITSKIY, B.P., retsenzent; VARSHAVSKAYA, L.S., red.
KNAKIN, N.T., tekhn, red.

[Manufacture of rayon staple] Proizvodstvo viskoznogo shtapsi'-
nogo volokna. Izd.2., dop. i perer. Moskva, Gos. nauchno-tekn.
izd-vo lit-ry po legkoi promyshi., 1958. 243 p. (MIRA 11:9)
(Rayon)

ACCESSION NR: AR4034492

S/0058/64/000/003/H055/H055

SOURCE: Ref. zh. Fiz., Abs. 3Zh385

AUTHORS: Yunitskiy, G. A.; Tarasov, V. V.

TITLE: Determination of the velocity of ultrasound in matter by the compound resonator method

CITED SOURCE: Tr. Mosk. Khim.-tekhnol. in-ta im. D. I. Mendeleyeva, vy*p. 41, 1963, 10-13

TOPIC TAGS: ultrasound propagation velocity, compound resonator, quartz crystal oscillation, resonator resonant frequency

TRANSLATION: One of the methods of determining the velocity of ultrasound in a solid by the method of the compound resonator is described. The use of double compound resonator makes it possible to avoid precision adjustment of the lengths of the specimens to satisfy

Card 1/2

ACCESSION NR: AR4034492

the condition $f \approx f_1 \approx f_2 \approx f_3$, which must be satisfied when a triple compound resonator is used (f -- resonant frequency of the compound resonator, f_1 -- natural frequency of the quartz crystal, f_2 -- natural frequency of the sound-conducting rod, and f_3 -- natural frequency of the specimen). In the case of a double compound resonator, measurements of two successive values of the resonant frequency of the compound resonator, f' and f'' , yield the values of the natural frequencies of the specimen f'_3 and f''_3 , after which the ratio $f'_3/n' = f''_3/(n' + 1)$ is used to determine the number of half waves which fit along the specimen at both oscillation frequencies. Thus, the velocity of ultrasound for any specimen length can be determined from two readings of the resonant frequencies of the compound resonator. V. Cherpak.

DATE ACQ: 10Apr64 SUB CODE: PH ENCL: 00

Cord 2/2

115524-66 ERT(m) EWPL #8
ACU-NV-A18-4183 SIC-RCI-1

Author: G. A. Tikhonov

Title: Method of Chemical Analysis of Polymers
Based on the Use of Chromatographic Techniques

Determination of the Structure of the
Carboxylic Acidic Groups in

SOURCE: Zhurnal fizicheskoy khimii ~ 40 no. 1 1966 114

TOPIC TAGS: Chemical analysis
Chromatography
Polymers
Carboxylic acids
Structure
Analysis
Chemical analysis
Chromatographic techniques
Polymer structures
Carboxylic acid groups
Chromatography
Chemical analysis
Chromatographic techniques
Polymer structures
Carboxylic acid groups

Card 1 of 2